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JAMECO® ELECTRONICS

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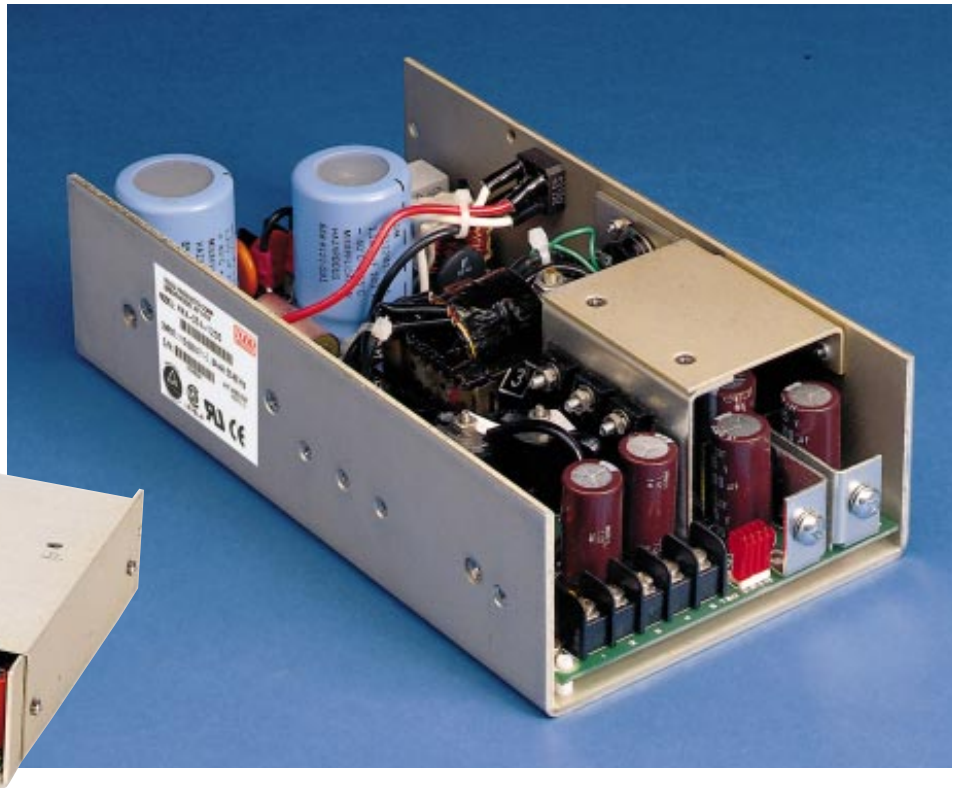
Jameco Part Number 196461

CONDOR

250, 350 WATTS
MULTIPLE OUTPUT

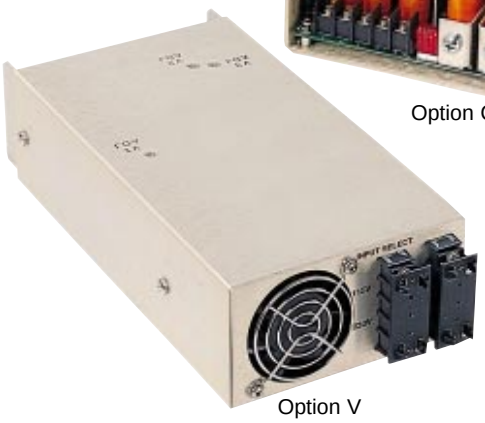
MAX-250 MAX-350
MTC-250 MTC-350
MTX-250 MSC-350



Featuring:

- Over 3 watt/in^3 power density
- 80% overall efficiency
- Meets international safety agency requirements
- All outputs regulated ± 1%
- High peak currents for motor starting
- System air or self-cooling options
- AC automatic line selection option
- Available in 24, 28, or 48 Vdc input

Option C



Option V

The appropriate MTC, MAX, or MTX in your telecom product gives you the outputs you need for ISDN, LAN, and T1 applications and standard voice and data networks. High-current auxiliary outputs provide regulation characteristics for proper operation of line drivers, network interfaces and RS232-type outputs. Or, use a 9-inch MSC in your computer-based product for needed output regulation, power for 50 Amps of logic and four hard disk drives.

And, you can increase power by 40% as you add peripherals – without redesigning for a larger power supply – by upgrading from the MDT 160/220 series.

Check the specifications of these low-profile, 9-inch switchers that give you more design freedom.

STANDARD MAX SERIES

MODEL	PWR	OUTPUT #1	OUTPUT #2	OUTPUT #3	OUTPUT #4
MAX-254-1205	250	+5V @ 35A	+12V @ 8/12A pk	-12V @ 4A	-5.2V @ 2A
MAX-353-0512	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	
MAX-354-1205	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	-5.2V @ 2A
MAX-354-1212	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	12V @ 2A
MAX-354-1224	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	+24V @ 1.5A

TELECOM MTC SERIES

MODEL	PWR	OUTPUT #1	OUTPUT #2	OUTPUT #3
MTC-253-0515	250	+5V @ 30A	+15V @ 4A	-15V @ 4A
MTC-353-0512	350	+5V @ 45A	+12V @ 6A	-12V @ 6A
MTC-353-0515	350	+5V @ 45A	+15V @ 5A	-15V @ 5A

MASS STORAGE MSC SERIES

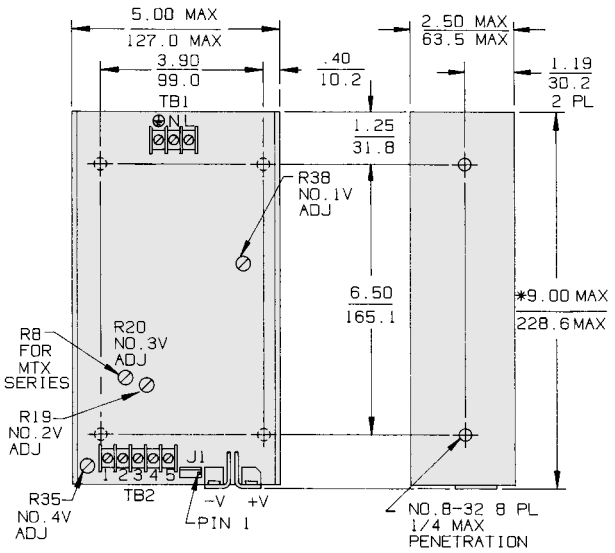
MODEL	PWR	OUTPUT #1	OUTPUT #2	OUTPUT #3
MSC-353-0512	350	+5V @ 30A	+12V @ 20/2 A pk	-12V @ 4A

SMALL COMPUTER MTX SERIES

MODEL	PWR	OUTPUT #1	OUTPUT #2	OUTPUT #3	OUTPUT #4
MTX-253-0512	250	+5V @ 35A	+12V @ 8/12A pk	-12V @ 2A	
MTX-254-1205	250	+5V @ 35A	+12V @ 8/12A pk	-12V @ 2A	+5V @ 1.5A
MTX-254-1212	250	+5V @ 35A	+12V @ 8/12A pk	-12V @ 2A	+12V @ 2A

MAX, MSC, MTC, MTX

3.4 lbs - 1.5 kgs

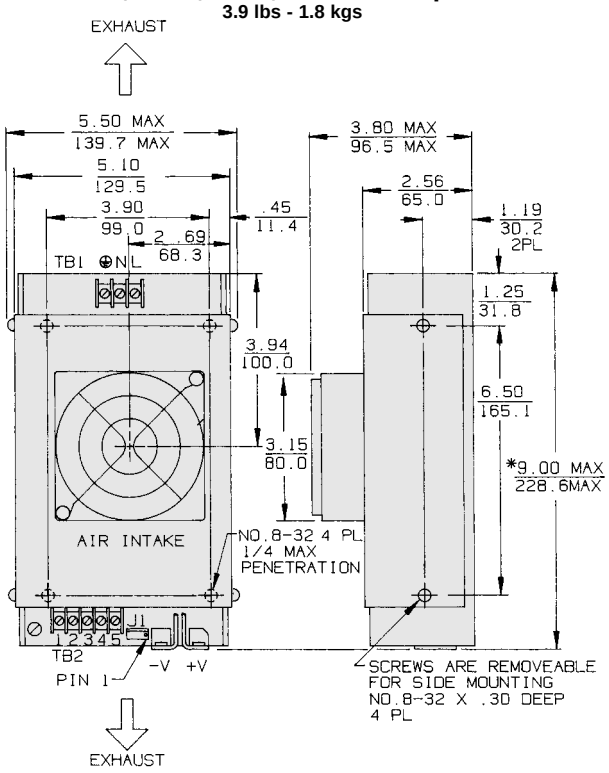


Dimensions: Inches
Millimeters

*9.05
229.87
for MTX

MAX, MSC, MTC, MTX with Option F

3.9 lbs - 1.8 kgs



SPECIFICATIONS: ALL MODELS

INPUT

AC Input: 90-132 Vac/180-264 Vac, 47 to 63 Hz. User selectable. See option "A" for automatic line selection. Internally fused for 10 A.
Inrush: Cold start AC current is less than 10 A at 115 Vac and 18 A at 230 Vac. For MTX models, 10 A at 115 Vac and 20 A at 230 Vac. Limited by thermistor.
Holdup Time: 16 ms minimum after removal of power, at nominal line, full load.
Efficiency: 80% typical.
Brownout Protection: Holds regulation to 85 Vac or 170 Vac.

OUTPUT

Adjustability: User adjustable ±5% minimum.
Line & Load Reg: ±1% over AC input range and 0 to 100% load change. Output #1 requires minimum load of 10%.
Ripple & Noise: Less than 1% p-p or 100 mV, whichever is greater.
Remote Sense (Output #1)**:** Compensates for 250 mV total line drop. Open sense lead protection.
Temperature Coefficient: 0.02% per degree C.
Stability: 0.1% over 8 hours after 30 minutes warm-up.
Transient Response (Output #1)**:** Output voltage returns to within 1% in less than 500 µs for a 50% load change. Peak transient does not exceed 5%.
Overload Protection: All outputs are protected against overload and short circuit. Automatic recovery upon removal of fault.
Overvoltage Protection (Output #1)**:** Protects load against power supply induced overvoltage. Trip point is factory set so that output voltage cannot exceed 136% of nominal.
Remote Inhibit: Contact closure to the negative sense line drops output power to nominal zero.
Reverse Voltage: Protected against reverse voltage up to supply current rating.

ENVIRONMENTAL

Thermal Protection: Shuts down power supply if overheated. Automatic recovery.
Temperature Range: 0° to 50°C at full ratings. Derate to half power at 70°C.
Safety Agencies: Most models are approved to UL1950; CSA 22.2 #234; IEC 950 and TÜV EN60950, Class 1 SELV., CE 72/23/EEC/93/68EEC (low voltage directive).
Conducted RFI: Meets FCC Part 15, Subpart J, Class A; EN55022 Class B; CISPR 22 Class B.
Cooling: 30 CFM required to achieve full ratings.
Output Isolation: Isolated from ground 50 Vdc.

OPTIONS:

Option "A", AC Auto-Range: Automatically selects proper AC line voltage range to enable power operation at either 115 or 230 Vac without user intervention.
Option "C", Cover: Limits contact with power supply interior.
Option "F", Fan/Cover Assembly: Cover with integral ball-bearing fan provides proper cooling to achieve full ratings at 50°C ambient temperature.
Option "G", DC Power Good: Provides a TTL "1" open collector when output #1 is above 4.6 V nominal. Not available if option "P" is selected.
Option "P", AC Power Fail: Provides TTL "0" 5 ms before output voltage goes out of regulation band upon loss of AC power. VMEbus compatible, provides 48 mA sink current capability. Not available if option "G" is selected.
Option "V", Fan/Cover Assembly: Low profile, end venting cover with integral ball-bearing fan.

Consult factory for other available options.

AC INPUT

FUNCTION	115 VAC	230 VAC	CONNECTOR
Input Select	Short	Open	0.187 Male Fastons
TB1- (L)	Line	Line 1	Barrier strip #6-32 screws 3/8" centers
TB1- (N)	Neutral	Line 2	
TB1- (⏚)	Safety Ground	Safety Ground	

DC OUTPUT

FUNCTION	MAX, MTC, MTX	MSC	CONNECTOR
Output #1	Terminal marked +V		Bus bars #10/32 screws
	Terminal marked COM		
Output #2	TB2-3 (+)	TB2-2 (+)	Barrier strip #6-32 screws 3/8" centers
	TB2-4 Rtn (Common)	TB2-1 Rtn (Common)	
Output #3	TB2-5 (–)	TB2-3(–)	
	TB2-4 Rtn (Common)	TB2-1 Rtn (Common)	
Output #4* (If provided)	TB2-1 (+)		
	TB2-2 (–)		

*Rtn connected to common only if output is polarized in product selection chart

STATUS AND CONTROL

FUNCTION	LOCATION	NOTES	CONNECTOR
Remote Sense	J1-1(+ S)	Output #1 Sense	AMP MTA type #640456-4 pin header (locking)
	J1-2 (– S)	Output #1 Sense Rtn	
AC Power Fail or DC Power Good*	J1-3 (PF)	Reference to J1-2	
Inhibit	J1-4 (IH)	Short to J1-2	

*Optional function